# SABIC Innovative Plastics ValoxÂ® VX8015U PBT+PET (Europe-Africa-Middle East)

**Category :** Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

**Material Notes:**

VALOX VX8015U is a UV stabilized, 15% glass reinforced PBT+PET injection moulding resin with improved surface finish quality characteristics versus VALOX 815. This grade is 815 with improved gloss and improved UV performance.This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-VX8015U-PBTPET-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 1.43 g/cc | 0.0517 lb/inÂ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 0.060 % | 0.060 % | 23Â°C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.26 %<br>@Temperature 23.0 Â°C | 0.26 %<br>@Temperature 73.4 Â°F | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0040 - 0.0080 cm/cm | 0.0040 - 0.0080 in/in | on tensile bar; SABIC Method |
| Linear Mold Shrinkage, Transverse | 0.0060 - 0.010 cm/cm | 0.0060 - 0.010 in/in | on tensile bar; SABIC Method |
| Melt Flow | 12 g/10 min<br>@Load 1.20 kg, Temperature 265 Â°C | 12 g/10 min<br>@Load 2.65 lb, Temperature 509 Â°F | [cm^3/10 min] Melt Volume Rate; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Hardness, Rockwell R | 119 | 119 | ISO 2039-2 |
| Hardness, H358/30 | 101 MPa | 14600 psi | ISO 2039-1 |
| Tensile Strength at Break | 90.0 MPa | 13100 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 6.00 GPa | 870 ksi | 1 mm/min; ISO 527 |
| Flexural Strength | 135 MPa | 19600 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 5.00 GPa | 725 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 5.00 kJ/mÂ²<br>@Temperature -30.0 Â°C | 2.38 ft-lb/inÂ²<br>@Temperature -22.0 Â°F | 80*10*4; ISO 180/1A |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| | 6.00 kJ/mÂ² @Temperature 23.0 Â°C | 2.86 ft-lb/inÂ² @Temperature 73.4 Â°F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 25.0 kJ/mÂ² @Temperature 23.0 Â°C | 11.9 ft-lb/inÂ² @Temperature 73.4 Â°F | 80*10*4; ISO 180/1U |
| | 25.0 kJ/mÂ² @Temperature -30.0 Â°C | 11.9 ft-lb/inÂ² @Temperature -22.0 Â°F | 80*10*4; ISO 180/1U |
| Charpy Impact Unnotched | 3.00 J/cmÂ² @Temperature 23.0 Â°C | 14.3 ft-lb/inÂ² @Temperature 73.4 Â°F | Edgew 80*10*4 sp=62mm; ISO 179/1eU |
| | 3.00 J/cmÂ² @Temperature -30.0 Â°C | 14.3 ft-lb/inÂ² @Temperature -22.0 Â°F | Edgew 80*10*4 sp=62mm; ISO 179/1eU |
| Charpy Impact, Notched | 0.400 J/cmÂ² @Temperature -30.0 Â°C | 1.90 ft-lb/inÂ² @Temperature -22.0 Â°F | V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA |
| | 0.500 J/cmÂ² @Temperature 23.0 Â°C | 2.38 ft-lb/inÂ² @Temperature 73.4 Â°F | V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA |
| | 0.600 J/cmÂ² @Temperature 23.0 Â°C | 2.86 ft-lb/inÂ² @Temperature 73.4 Â°F | ISO 179/2C |
| | 0.600 J/cmÂ² @Temperature -20.0 Â°C | 2.86 ft-lb/inÂ² @Temperature -4.00 Â°F | ISO 179/2C |
| Taber Abrasion, mg/1000 Cycles | 17 @Load 1.00 kg | 17 @Load 2.20 lb | CS-17; SABIC Method |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| CTE, linear, Parallel to Flow | 55.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C | 30.6 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F | ISO 11359-2 |
| CTE, linear, Transverse to Flow | 85.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C | 47.2 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F | ISO 11359-2 |
| Deflection Temperature at 0.46 MPa | 215 Â°C | 419 Â°F | Edgew 120*10*4 sp=100mm; ISO |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| | (66 psi) | | 75/Be |
| Deflection Temperature at 1.8 MPa (264 psi) | 175 Â°C | 347 Â°F | Edgew 120*10*4 sp=100mm; ISO 75/Ae |
| Vicat Softening Point | 200 Â°C | 392 Â°F | Rate B/50; ISO 306 |
| | 213 Â°C | 415 Â°F | Rate B/120; ISO 306 |
| | 220 Â°C | 428 Â°F | Rate A/50; ISO 306 |
| Flammability, UL94 | HB<br>@Thickness 1.60 mm | HB<br>@Thickness 0.0630 in | UL 94 by SABIC-IP |
| Glow Wire Test | 750 Â°C<br>@Thickness 1.00 mm | 1380 Â°F<br>@Thickness 0.0394 in | Glow Wire Flammability Index; IEC 60695-2-12 |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Volume Resistivity | >= 1.00e+15 ohm-cm | >= 1.00e+15 ohm-cm | IEC 60093 |
| Surface Resistance | >= 1.00e+15 ohm | >= 1.00e+15 ohm | ROA; IEC 60093 |
| Dielectric Constant | 2.9<br>@Frequency 1.00e+6 Hz | 2.9<br>@Frequency 1.00e+6 Hz | IEC 60250 |
| | 3.0<br>@Frequency 50.0 - 60.0 Hz | 3.0<br>@Frequency 50.0 - 60.0 Hz | IEC 60250 |
| | 3.6<br>@Frequency 100 Hz | 3.6<br>@Frequency 100 Hz | IEC 60250 |
| Dielectric Strength | 16.0 kV/mm<br>@Thickness 3.20 mm | 406 kV/in<br>@Thickness 0.126 in | in oil; IEC 60243-1 |
| | 18.0 kV/mm<br>@Thickness 1.00 mm | 457 kV/in<br>@Thickness 0.0394 in | short time; IEC 60243-1 |
| | 24.0 kV/mm<br>@Thickness 1.60 mm | 610 kV/in<br>@Thickness 0.0630 in | in oil; IEC 60243-1 |
| | 30.0 kV/mm<br>@Thickness 0.800 mm | 762 kV/in<br>@Thickness 0.0315 in | in oil; IEC 60243-1 |
| Dissipation Factor | 0.0010<br>@Frequency 50.0 - 60.0 Hz | 0.0010<br>@Frequency 50.0 - 60.0 Hz | IEC 60250 |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| | 0.0020<br>@Frequency 100 Hz | 0.0020<br>@Frequency 100 Hz | IEC 60250 |
| | 0.014<br>@Frequency 1.00e+6 Hz | 0.014<br>@Frequency 1.00e+6 Hz | IEC 60250 |
| Comparative Tracking Index | >= 175 V | >= 175 V | IEC 60112 |
| | 325 V | 325 V | IEC 60112 |

| Descriptive Properties | Value | Comments |
|---|---|---|
| Ball Pressure Test, 125Â°C +/- 2Â°C | PASSES | IEC 60695-10-2 |

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